

## Specifications

UP-990AD / UP-970AD	
Printing method	Direct thermal printing
Resolution	325 dpi
Gradation	256 levels processing
Picture size: standard	Digital: 200 x 150 mm (7 7/8 x 6 inches) NTSC: 188 x 143 mm (7 1/2 x 5 3/4 inches) PAL: 188 x 140 mm (7 1/2 x 5 5/8 inches)
Maximum print pixels: side	Digital: 3414 x 2560 dots NTSC: 1280 x 508 dots PAL: 1280 x 612 dots
Maximum print memory	Digital: Approx. 70 Mbit (Single frame) NTSC: Approx. 31 Mbit (6 frames) PAL: Approx. 38 Mbit (6 frames)
Printing Time	Approx. 8 seconds / image at standard mode printing
Printer driver software	Microsoft Windows 2000, XP
Sharpness	Set up from 0 to 14
Interface	Digital: Hi-Speed USB Analogue: Video
Power consumption	100 to 120 V AC: 2.4A, 220 to 240 V AC: 1.3A
Power requirements	AC 100 to 120 V, AC 220 to 240 V 50/60 Hz
Mass	Approx. 8 kg (17 lb 10 oz)
Safety standards	UL60950-1, CSA C22.2 No.60950-1, UL60601-1, CSA C22.2 No.601.1, EN60950, EN60601-1, IEC60950-1, IEC60601-1,
EMC	FCC/IC Class A Digital Device, EN55022 Class B, EN55024, EN61000-3-2/3-3, EN60601-1-2, VCCI Class A + mains harmonic current regulation
Supplied accessories	Head cleaning sheets (1), UPP-210HD High density printing paper (1), BNC cable (1), USB cable (1), Operation guide (Getting Started) (1), CD-ROM (Instruction for use, driver software) (1), Media label (1), Software License Agreement (1)

## Print Media



UPP-210HD  
High Density  
Print Media



UPP-210SE  
High Quality  
Print Media



UPT-210BL  
Blue Transparent Film

## Rear Panel UP-990AD / UP-970AD



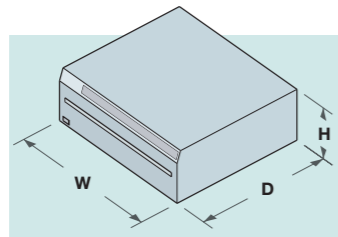
## Optional Accessory



RM-91  
Remote Control Unit

## Dimensions UP-990AD / UP-970AD

- W 316mm (12 1/2 inches)
- H 132.5mm (5 1/4 inches)
- D 305mm (12 1/8 inches)



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CA UP-990AD-970AD/GB- / /2006

UP-990AD  
UP-970AD  
Hybrid Graphic Printers



# UP-990AD UP-970AD

The **UP-970AD** and **UP-990AD** are unique hybrid black and white graphic printers that support both analogue and digital applications. This dual compatibility is especially critical as imaging systems make the transition from analogue to digital technology.

Replacing the popular UP-960 and UP-980 models, the full-page UP-970AD and UP-990AD offer improved resolution of 325 dpi for superb image quality and faster print speed of approximately 8 seconds. The UP-990AD's optional blue transparency media produces high quality film-like transparencies. These and other printer features make the UP-970AD and UP-990AD ideal for medical black and white applications such as ultrasound, mobile C-arm and cardiac cath lab.



UP-970AD



UP-990AD



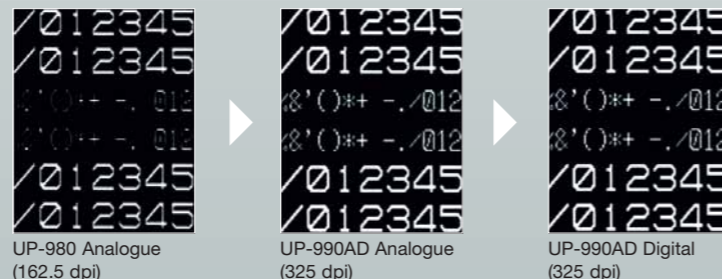
## Features

### Both analogue and digital signal inputs

The UP-970AD/990AD can receive both analogue and digital signals, allowing them to support both types of C-arm system. This makes them ideal for today's transitional stage from analogue to digital C-arm applications.

### Superb print quality

Incorporating Sony direct thermal-printing technology, the UP-970AD and UP-990AD provide photo-like prints with a high resolution of approximately 325 dpi – double the density of the predecessor models, UP-960/980.



### High-speed printing

The UP-970AD and UP-990AD offer an impressive printing time of approximately 8 seconds\* per page, making them ideal for time-critical medical applications.

\* When used in standard mode.

### Compact design

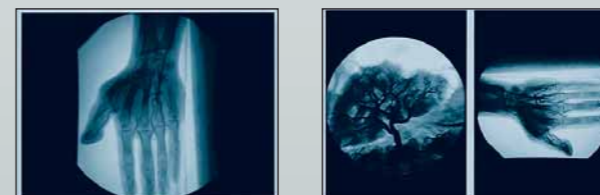
The UP-970AD and UP-990AD have a compact design with dimensions of approximately 316 (W) x 132.5 (H) x 305 (D) mm (12 1/2 x 5 1/4 x 12 1/8 inches), which is exactly the same size as predecessor models. This compact body enables them to fit easily into mobile C-arm carts.

### Superior operability

All the operation keys are located on the front panel. This front operation offers easy set-up and flexible maintenance when the printer is installed on a cart. In addition, a volume knob on the front panel allows easy adjustment of both contrast and brightness.

**Blue transparent film (UP-990AD)**

With the UP-990AD, images can also be printed on blue transparent film, which can then be used as reference images for the diagnostics.

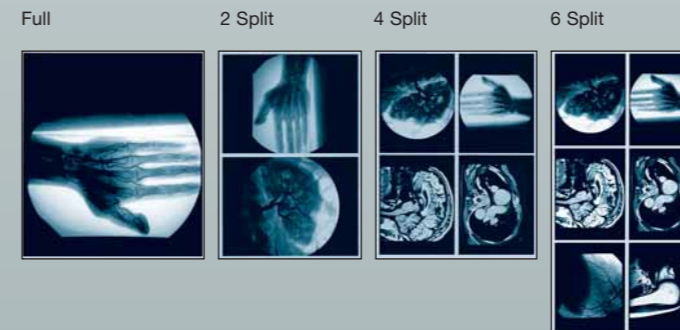


### Automatic media-cutting function (UP-990AD)

When printing has finished on the UP-990AD, the printed paper or film is automatically cut by the media-cutting function.

### Multiple print modes

As well as printing out a single image, the UP-970AD and UP-990AD can also provide two, four, and six split images in one sheet.



## Application Examples

### Printer for C-arm System



### Printer for Ultrasound

